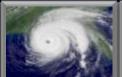




# arsha

## Center Director's Breakfast

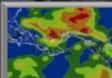
New Directions
New Challenges
New Opportunities













Robert Lightfoot August 2, 2011

www.nasa.gov

#### **Space Shuttle Program Celebration**



Mark your calendar!

U.S. Space and Rocket Center

August 20, 2011 6:00 p.m. – 10:00 p.m.

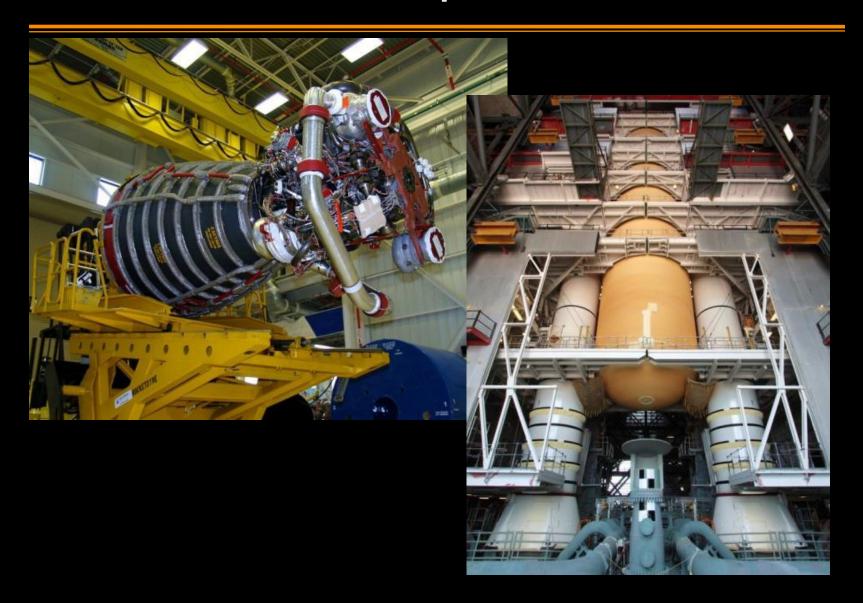
## **STS-135 Launch into History**



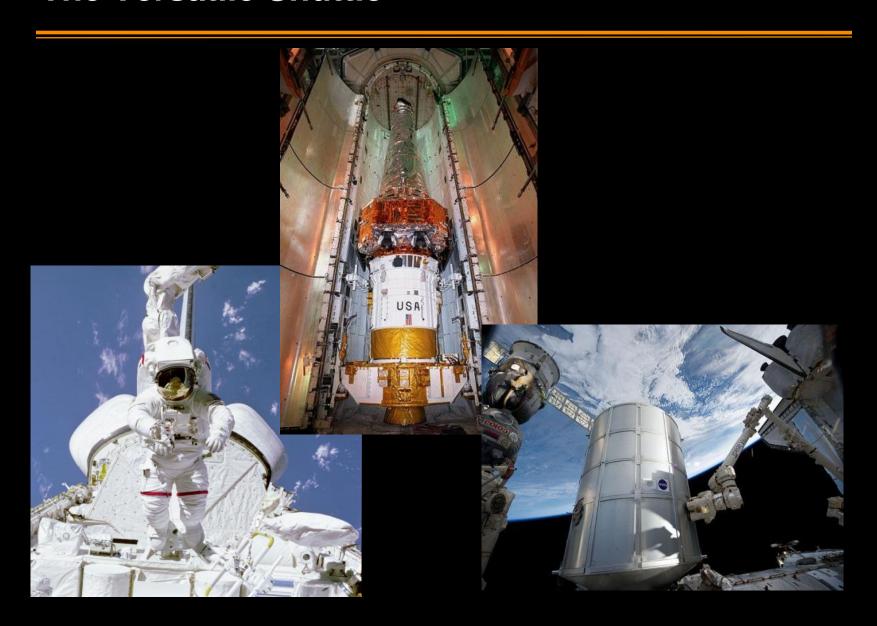
#### **STS-135 Events at Marshall**



## **Final Shuttle Launch Preparation**



#### **The Versatile Shuttle**



## **Shuttle firsts**



## STS-135 Landing

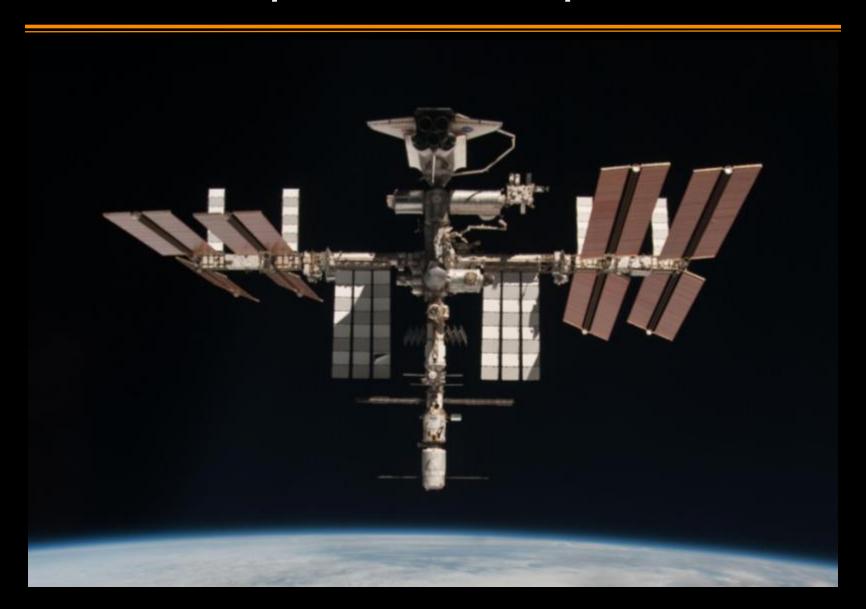


#### 135 MISSIONS



9

#### **International Space Station Completion**



## **International Space Station**





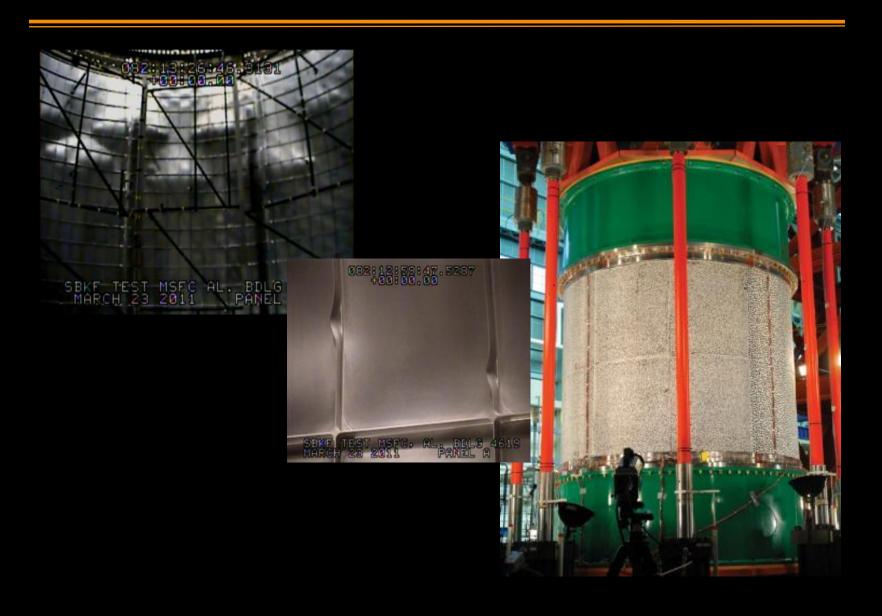
#### **Tests and Milestones: Pad Abort Test**



#### **Tests and Milestones**



#### **Shell Buckling Test**



#### **The 2011 Shaw Prize in Astronomy**



**Dr. Gerald Fishman** 



## **James Webb Space Telescope**



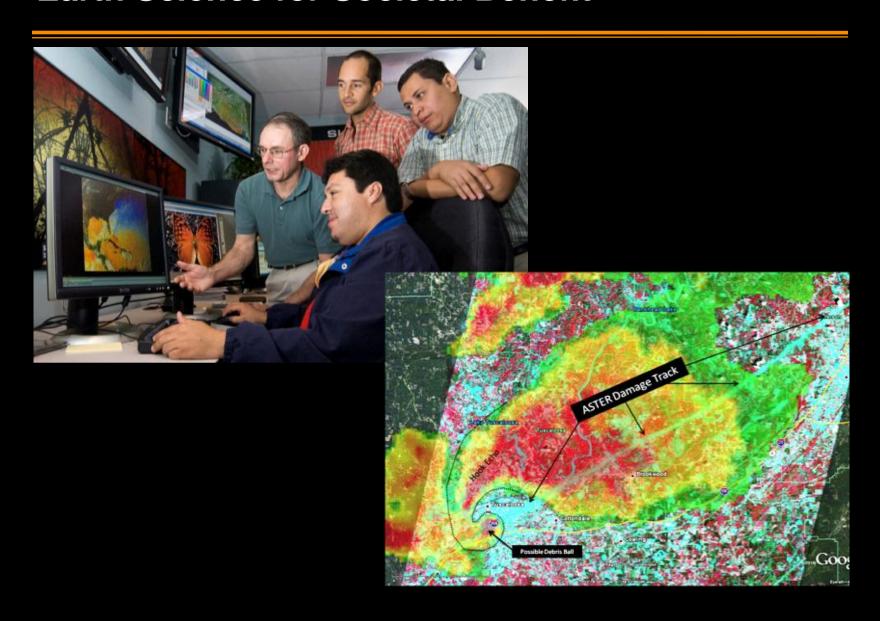
## **FASTSAT – NanoSail-D**



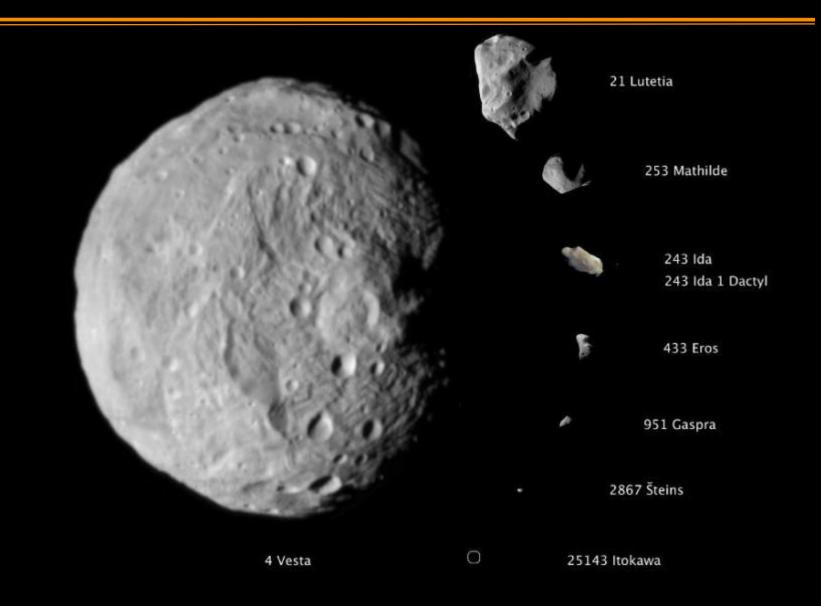
## Solar Science



#### **Earth Science for Societal Benefit**



#### **Discovery and New Frontiers**



## **Chandra X-ray Observatory**



#### **MSFC Contractor Excellence Award**



#### **MSFC Contractor Excellence Award**





#### **NASA Strategic Plan**

Extend and sustain human activities across the solar system

Expand scientific understanding of the Earth and the universe in which we live

Create the innovative new space technologies for our exploration, science, and economic future

Advance aeronautics research for societal benefit

Enable program and institutional capabilities to conduct NASA's aeronautics and space activities

Share NASA with the public, educators, and students to provide opportunities to participate in our Mission, foster innovation, and contribute to a strong national economy

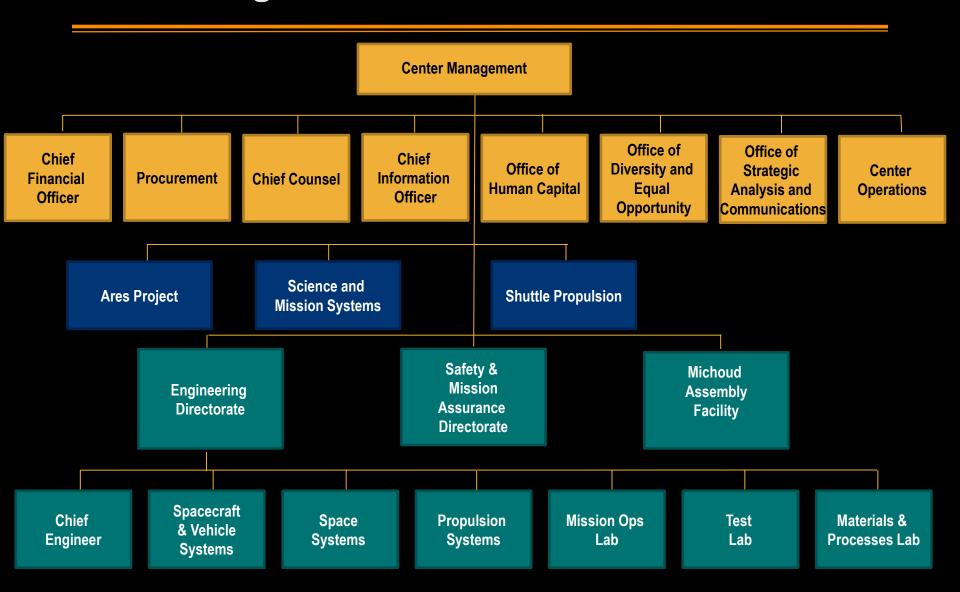


## **New Challenges**

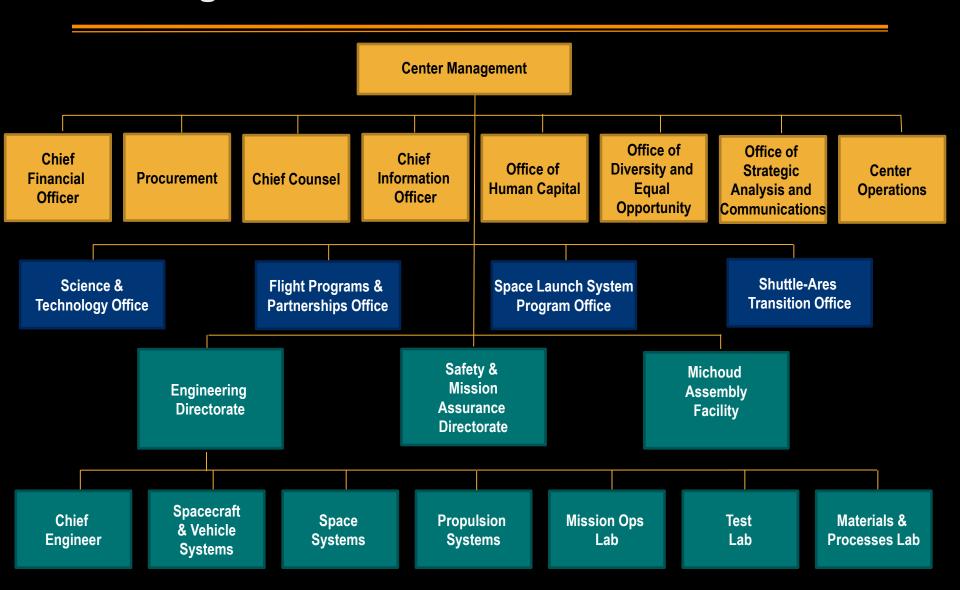




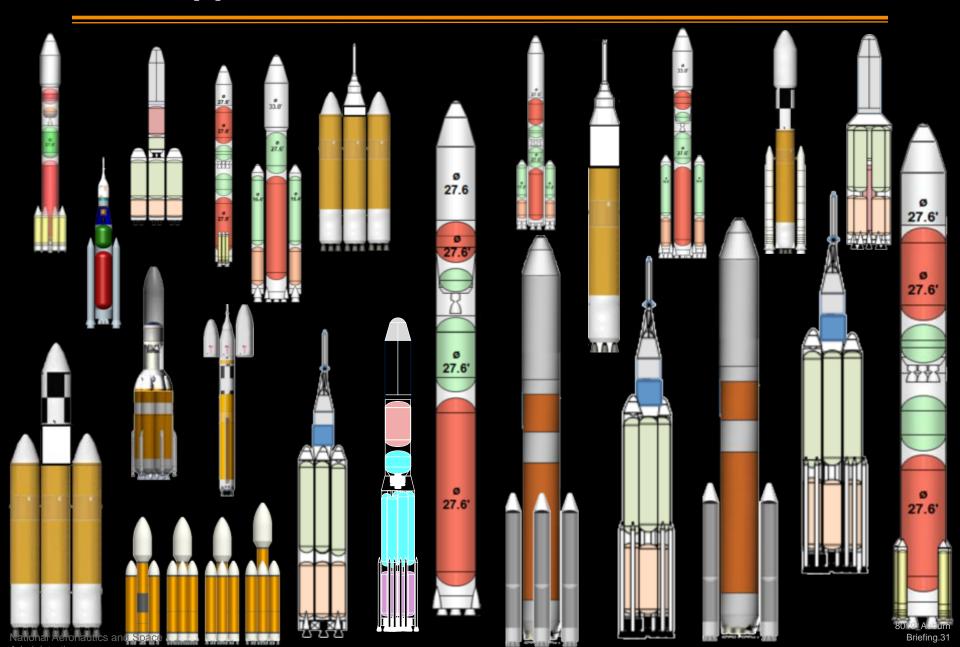
#### **Current Organization**



#### **New Organization**



## **New Opportunities: SLS**



#### **National Institute for Rocket Propulsion Systems**



# Planning Partners

